

CONFIDENTIAL

R&D LAB PROJECT

TITLE VHF Antenna Mirror 25X1CLASSIFICATION: Equipment Confidential Report ConfidentialQUANTITY: Equipment ----- Report 3 plus regularREQUESTED BY: Chief, SEB LIAISON

DETAILS: 25X1

Perform Class "B" evaluation on the subject antenna, placing particular emphasis on those points covered in the attached request.

DOCUMENT NO.
 NO CHANGE IN CLASS. ☒
☐ DECLASSIFIED
 CLASS. CHANGED TO: TS S C 2010
 NEXT REVIEW DATE:
 AUTH: HR 70-2
 DATE: 2 DEC 1980 REVIEWER: 064540

Attachment:

Form 1357 dated 2 January 1962

25X1

(Report needed 1 Fe)PRIORITY Routine DATE 8 January 1962

DISTRIBUTION		EQUIPMENT DELIVERED		ENGINEERS ASSIGNED
		Quantity	Date	
R&D	1			
DESIGN				
A&A	2 ✓			
MECH. FAB.				
ELEC. FAB.				
DRAFTING	1			
LAB	1			

CONFIDENTIAL

No. 2004-204

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM:

Equipment Engineering Section, OC
2706 Alcott Hall

NO.

DATE

21 December 1961

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

RECEIVED

FORWARDED

1. Chief, R+D

1-1 [Signature]

where's ant?

2. LAB

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

CONFIDENTIAL

REQUEST FOR EQUIPMENT EVALUATION				REQUEST NO.		PROJECT NO.	
				PRIORITY CLASS		DATE	
NOMENCLATURE							
Antenna, Mirror, VHF				25X1			
MANUFACTURER							
 25X1							
MODEL				PRICE			
50037				\$49.50			
TYPE OF EVALUATION							
CLASS A (Complete A & A)				CLASS C (General)			
<input checked="" type="checkbox"/> CLASS B (Partial A & A)				CLASS D (Operational)			
OTHER							
REPORT NEEDED BY (Date) 1 February 1961				NO. OF COPIES REQUIRED 3			
SECURITY CLASSIFICATION							
EQUIPMENT				REPORT			
SECRET		<input checked="" type="checkbox"/> CONFIDENTIAL		SECRET		<input checked="" type="checkbox"/> CONFIDENTIAL	
		UNCLASS.				UNCLASS.	
PURPOSE OF EVALUATION							
To determine the suitability of this antenna in vehicular surveillance work. 150 MCS							
FOR CLASS B (Specify tests required)							
a. Bandwidth b. Input Impedance c. VSWR over Bandwidth d. Efficiency, (Watts input vs. watts output) e. Comments on suitability and advantages/disadvantages over ordinary whip antennas; Probable radiation pattern.							
GENERAL REQUIREMENTS							
PROPOSED USE OR OPERATION							
Vehicular Surveillance Systems							
GEOGRAPHIC AREA OF PROPOSED USAGE							
World Wide							
SPECIFIC REQUIREMENTS							
TEMPERATURE				HUMAN			
CLIMATE				OTHER 25X1			
REQUESTING DIVISION				PERFORMING DIVISION			
DATE				DATE		APPROVED BY	
				1-7-62			
DATE				DATE		PROJECT OFFICER	
				CAS		25X1	

TYPE OF EVALUATION EXPLANATION

CLASS A

- (1) ANALYSIS OF SUITABILITY OF CIRCUITS SELECTED TO PERFORM VARIOUS FUNCTIONS
- (2) RECOMMENDATIONS FOR IMPROVEMENT OF CIRCUIT DESIGN AND/OR INCORPORATION OF MORE SUITABLE COMPONENTS
- (3) FLEXIBILITY OF SYSTEM FEATURES
- (4) ANALYSIS OF PROBABLE RELIABILITY OF OPERATION
- (5) ANALYSIS OF FORM FACTOR OF UNITS OF SYSTEM WHERE APPLICABLE
- (6) EVALUATION OF RELATIVE EASE OF MAINTENANCE AND SERVICING
- (7) EVALUATION OF POSSIBLE METHODS OF FURTHER SIZE AND WEIGHT REDUCTION WHERE THIS IS AN IMPORTANT FACTOR
- (8) ANALYSIS OF IMMUNITY TO FUNGUS, CORROSION, DUST, WATER IMMERSION, ETC.
- (9) ANALYSIS OF COMPLEXITY OF OPERATION AND RELATIVE DEGREE OF OPERATOR SKILL REQUIRED
- (10) ANALYSIS OF OPERATIONAL SUITABILITY FOR KNOWN TYPES OF FIELD STATION OR BASE STATION EMPLOYMENT
- (11) COMPARISON WITH OTHER KNOWN SYSTEMS, DEVICES OR COMPONENTS OF SYSTEMS DESIGNED FOR SIMILAR FUNCTIONS

CLASS B - THIS TYPE EVALUATION INCLUDES THE TEST AND EVALUATION OF ONLY THOSE CHARACTERISTICS OF A SYSTEM, DEVICE OR COMPONENT OF A SYSTEM WHICH ARE SPECIFIED BY THE REQUESTING INDIVIDUAL OR OFFICE. THE CONCLUSIONS AND RECOMMENDATIONS MAY INVOLVE ANY OF THE LISTED CATEGORIES UNDER THE CLASS "A" EVALUATION DESCRIBED ABOVE AND IS DEPENDENT UPON THE NATURE OF THE REQUEST.

CLASS C

- (1) FLEXIBILITY OF SYSTEM FEATURES
- (2) SUITABILITY OF FORM FACTOR OF UNITS
- (3) ANALYSIS OF POSSIBLE APPLICATIONS OF ITEM UNDER CONSIDERATION
- (4) ANALYSIS OF DEGREE OF OPERATOR SKILL REQUIRED
- (5) COMMENTS ON UNUSUAL OR NOVEL CHARACTERISTICS WHICH MAY BE EVIDENT FROM TESTS, INSPECTION OR CLAIMED BY THE MANUFACTURER

CLASS D - THE OPERATIONAL EVALUATION PERFORMED INCLUDES THE FOLLOWING INFORMATION:

- I. PHYSICAL
 - (1) DEFECTS, DAMAGES, OMISSIONS IN PACKING NOTED UPON DELIVERY
 - (2) COMPLEXITY OF ASSEMBLY OR DISASSEMBLY
 - (3) MECHANICAL RELIABILITY
- II. OPERATIONAL
 - (1) COMPLEXITY OF TUNING OR FUNCTIONAL CHANGES
 - (2) ELECTRICAL RELIABILITY
 - (3) OMISSIONS OF FEATURES, I.E.: POOR STABILITY, RESETTABILITY, SELECTIVITY, ETC.
- III. RECOMMENDATIONS
 - (1) RECOMMENDED OR NOT
 - (2) IF RECOMMENDED, FOR WHAT APPLICATIONS